Declassified in Part - Sanitized Copy Approved for Release 2014/05/08 : CIA-RDP78-03330A000800020020-5 / CHARACTERISTICS OF INFRARED COMMUNICATIONS SYSTEMS

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TYPE	TOTAL WEIGHT (equip. plus power)	RANGE IN MILES (average clear weather)	REAM WIDTH	TYPE OF MODULATION		EQUIPMENT STATUS	LIFE (hours)	DETECTOR TYPE	FOCUSING SYSTEM	FILTER TYPE	SOURCE OF RADIATION
Signal Corps Optiphone AN/TVC-1	100 + 45 = 145	5-7	1/3 degree	Scophony Cell Modulation (Quartz crystal exciting a lens system)	liquid	Built in 1944	10	JAN-918 Photocell	lens system	Wratten 88A	2 amp. 5 volt tungsten lamp
RCA Optiphone (Aural Signal Lamp Equip.)	37 + 12 = 49	2-3	l degree	Mechanical (Moving mirror galvanomet	r)	Built in 1945 for Signal Corps	7	RCA-921 Photocell	lens system	Wratten 88A	2 amp. 5 volt tungsten lamp
NDRC Type "W"	8 + 10 = 18	3	5 degrees	?		Navy Contract at Northwestern Univ. 1950-1951	1	?	?	. ?	?
E.R.A. Proposal to the Agency dtd Nov. 1948	"Easily carried by one man"	l mile minimum in adverse weather	approx. 1 degree	Current Modulation of Concentrated Arc Lamp	О	No action taken	?	Lead Sulphide	Spherical Reflectors (Metallic)	?	2 watt Concentrated Arc Lamp developed by the Western Union Research Laboratories
German Model Li 50/60	30	3:	1/4 degree	?	j i	World War 2 Vintage	?	?	?	?	?
German Model Li 250/130	140	9	1/3 degree	?		World War 2 Vintage	?	?	?	?	?
German Model Li-Spr-80	approx. 55	ŗ .	1/6 degree	Variation of the airgap b two prisms of different i of refraction alternately producing reflection and the IO X IO X 6 inches in thems	ndices	World War 2 Vintage	approx.	?	lens system	? .	?
AN/PAR-L	Portable, aural, op Can be used with AN	PAC-1; expected a	.0 micron band; vailability Marc	10 X 10 X 6 inches in thens in 1952.	ion; U						
AN/PAR-2	Demolition homing d Availability June	evice for attachme	nt to swimmer's	pelmet. 0.8 to 2.0 micron ba	nd;						
AN/PAC-1	Similar to Navy Typ or AN/SAC-1; availa	e "W"; portable hability June 1952.	nd carried trans	eiver to oe operated with A	N/PAR-1						
AN/SAC-4	Shipborne transmitt	er-receiver intend	ed for night use	Availability August 1952.		· · · · · · · · · · · · · · · · · · ·		-			
an/sar-4	I-R telescope to de Availability Augus	tect beacon signal t 1952.	s; 0.7 to 1.0 mi	eron range.		Investigation Proposed in December 1951	?	?	?	?	?
Recent Agency proposal to Baird Associates December 1951	20 <b>+</b> 20 <b>=</b> 40	approx. 4-5 (1 mile min. in bad weather	2 degrees max.	. ?	tons (ANT POT POT POT AND	)					
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